

(m) denotes methylation

FIG. 1

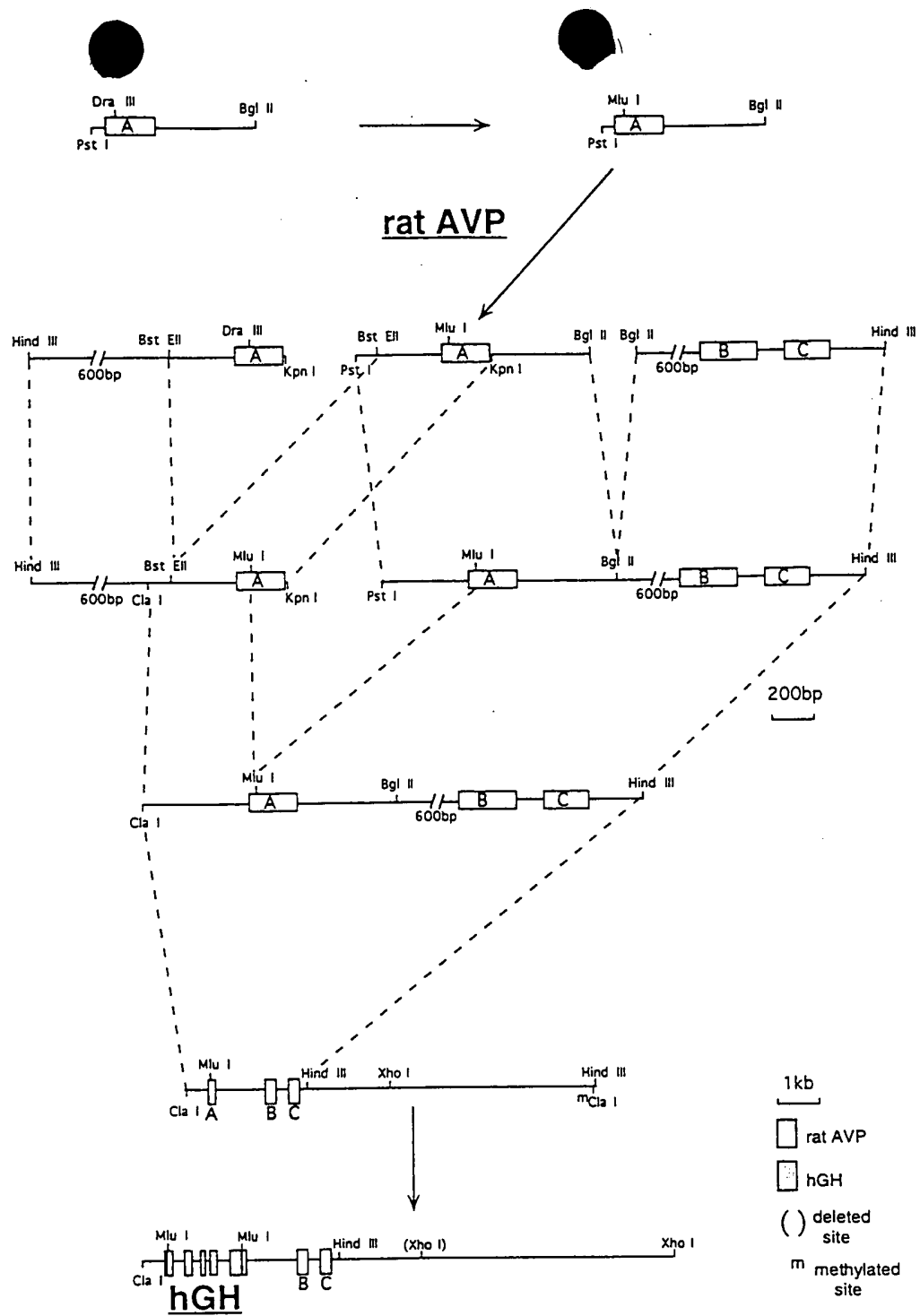


FIG. 2
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rat AVP/OXT gene locus

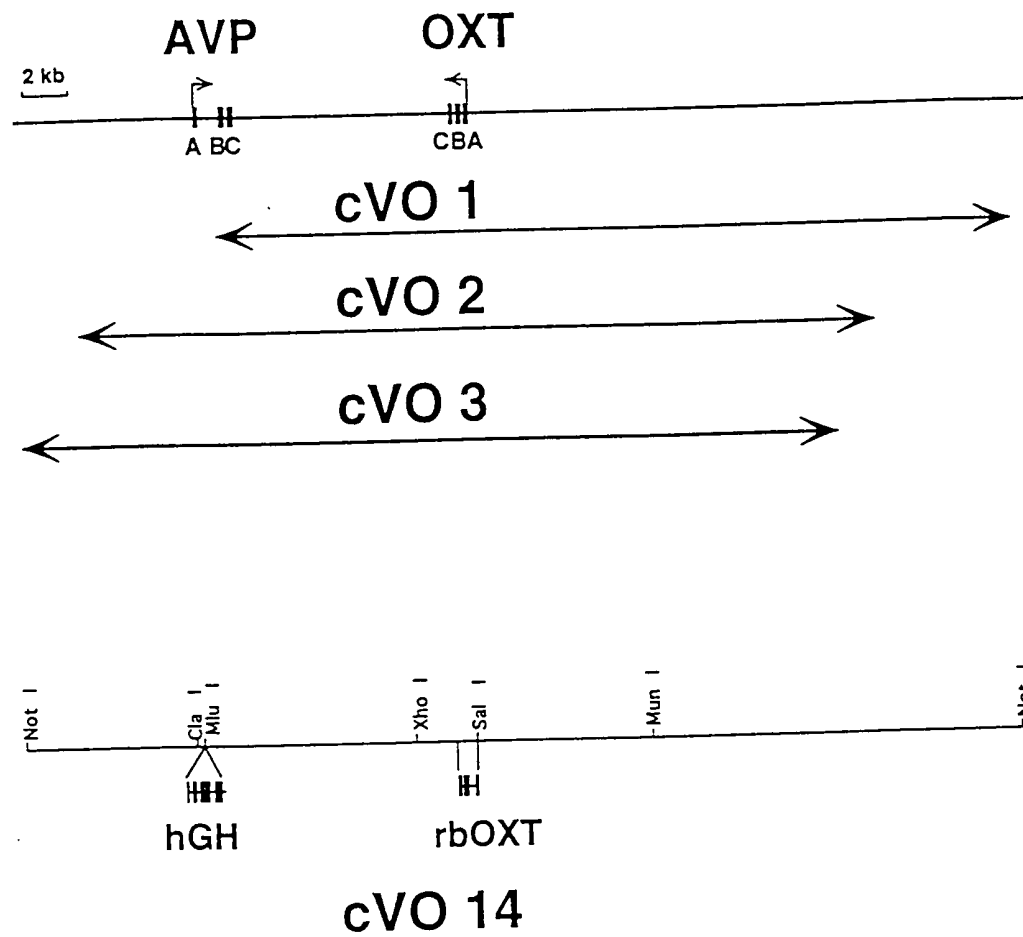


FIG. 4

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'TATA-BOX'



AGACATAAAAAGGTCGGTC

MOUSE

AGGCATAAAAAGGCCAGGC

HUMAN

CGGGCTTAAAAGGCCAGAC

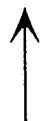
COW

AGGCATAAAAAGGTCGGTC

RAT

AGGCATAAAAAGTCGGTC

cVO 14



Base Substitution

FIG. 5

Figure 6

5'OT-EST PROTEIN OF DIFFERENT SPECIES

Mouse

MLRALNRLAQRPGDRPPTPLLLPVRGRKTRHDPPAKSKVGRVQTPPAVDPAEFFVLTERY
GQYRETVRALRLEFTLDVRRKLHEARAGVLAERKAQQAITEHRELMAWNNDENRRMQELR
IARLQLEAQAQEVQKAEARQRAQEEQAWVQLKEQEVCLKQEEAKNFITRENLEARIEEA
LDSPKSYNWAVTKEGQVVRN

Rat

MLRALNRLAARPGGQPPTLLLLPVRGRKTRHDPPAKSKVGRVKMPPAVDPAELFVLTERY
RQYRETVRALRREFTLEVRGKLHEARAGVLAERKAQEAIREHQELMAWNREENRRLQELR
IARLQLEAQAQELRQAEVQAQRAQEEQAWVQLKEQEVCLKQEEAKNFITRENLEARIEEA
LDSPKSYNWAVTKEGQVVRN

Human

MLRALSRLGAGTPCRPRAPLVLARGRKTTRHDPLAKSKIERNMPPAVDPAEFFVLTERY
QHYRQTVRALRMEFVSEVQRKVHEARAGVLAERKALKDAAEHRELMAWNQAENRRLHEL
IARLRQEEREQEQRQALEQARKAEVQAWAQRKEREVLQLQEEVKNFITRENLEARVEAA
LDSRKYNWAITREGLVVRPQRDS

Alignment

Mouse	MLRALNRLAQRPGDRPPTPLLLPVRGRKTRHDPPAKSKVGRVQTPPAVDPAEFFVLTERY
Rat	MLRALNRLAARPGGQPPTLLLLPVRGRKTRHDPPAKSKVGRVKMPPAVDPAELFVLTERY
Human	MLRALSRLGAGTPCRPRAPLVLARGRKTTRHDPLAKSKIERNMPPAVDPAEFFVLTERY
Mouse	GQYRETVRALRLEFTLDVRRKLHEARAGVLAERKAQQAITEHRELMAWNNDENRRMQELR
Rat	RQYRETVRALRREFTLEVRGKLHEARAGVLAERKAQEAIREHQELMAWNREENRRLQELR
Human	QHYRQTVRALRMEFVSEVQRKVHEARAGVLAERKALKDAAEHRELMAWNQAENRRLHEL
Mouse	IARLQLEAQAQEVQKAEARQRAQEEQAWVQLKEQEVCLKQEEAKNFITRENLEARIEEA
Rat	IARLQLEAQAQELRQAEVQAQRAQEEQAWVQLKEQEVCLKQEEAKNFITRENLEARIEEA
Human	IARLRQEEREQEQRQALEQARKAEVQAWAQRKEREVLQLQEEVKNFITRENLEARVEAA
Mouse	LDSPKSYNWAVTKEGQVVRN
Rat	LDSPKSYNWAVTKEGQVVRN
Human	LDSRKYNWAITREGLVVRPQRDS

Predicted deleted form in JP17

MLRALNRLAARPGGQPPTLLLLPVRGprprsrfsapfssqds

↑

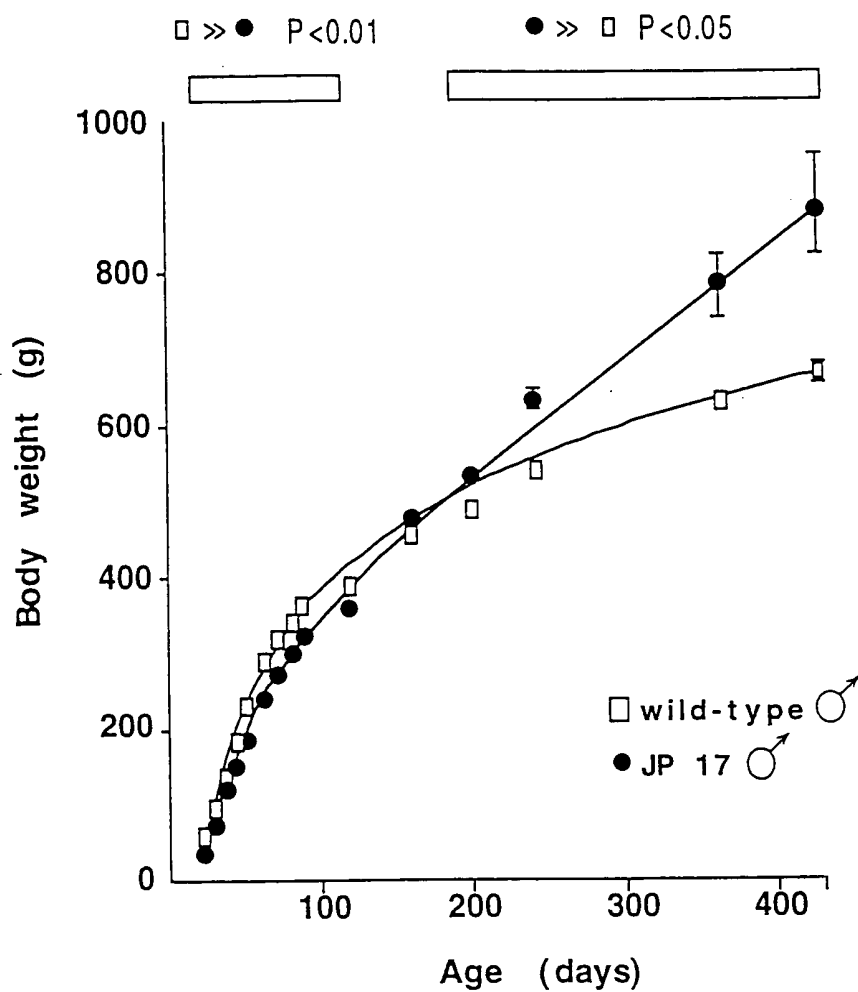


FIG. 7

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Figure 1: Body weight (g) versus Age (days) for male and female JP17 and non-transgenic mice.

The graph displays two panels: the top panel for males (♂) and the bottom panel for females (♀). Each panel compares the body weight gain of JP17 mice (filled symbols) and non-transgenic mice (open symbols) over a 450-day period. Error bars represent standard deviation. Statistical significance is indicated by asterisks (*, **) and 'n.s.' for non-significant.

Sex	Genotype	Age (days)	Body weight (g)	Significance
Male (♂)	JP17	150	~470	n.s.
		200	~550	
		250	~650	
	non-transgenic	200	~500	n.s.
		250	~550	
		300	~600	
JP17	350	~780	*	
	400	~880	*	
	450	~900	*	
	non-transgenic	350	~650	n.s.
400		~680		
450		~720		
450		~750		
Female (♀)	JP17	150	~250	n.s.
		200	~280	
		250	~320	
	non-transgenic	200	~270	n.s.
		250	~290	
		300	~310	
JP17	350	~380	n.s.	
	400	~420		
	450	~450		
	450	~450		
non-transgenic	350	~350	n.s.	
	400	~370		
	450	~390		
	450	~380		

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body weight
body length
(g/cm)

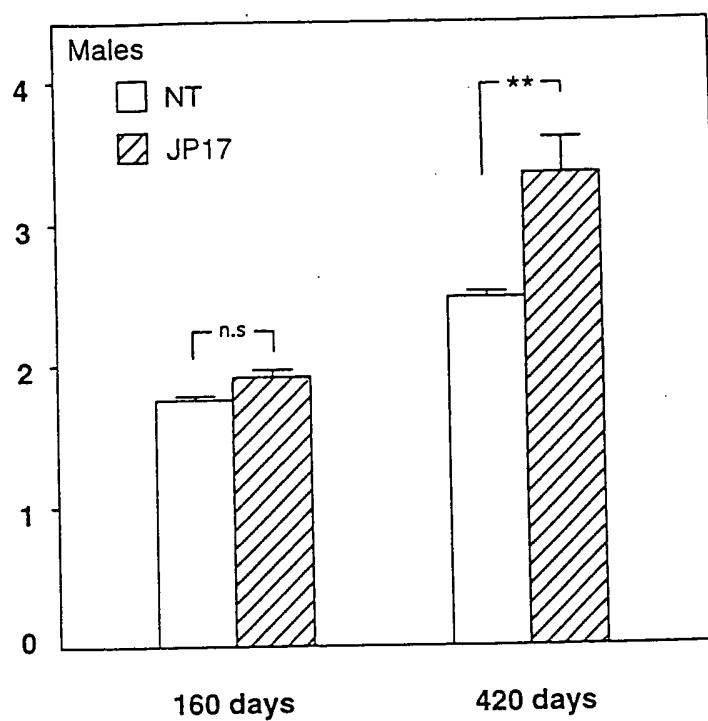


FIG. 10

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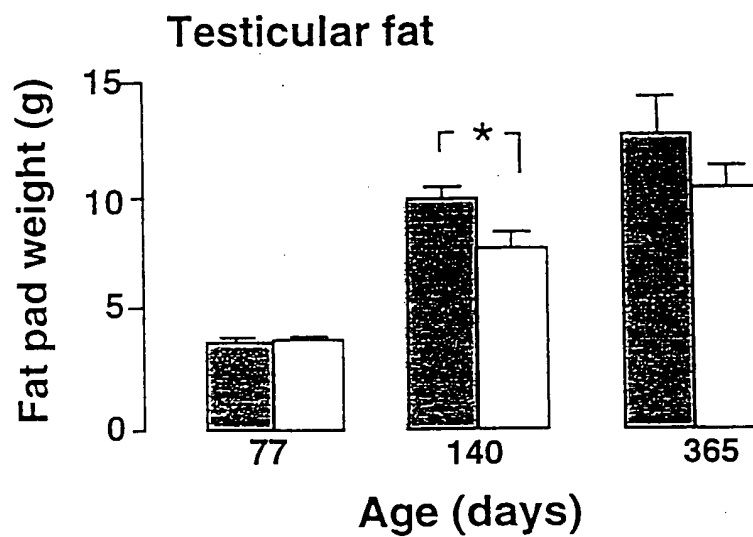
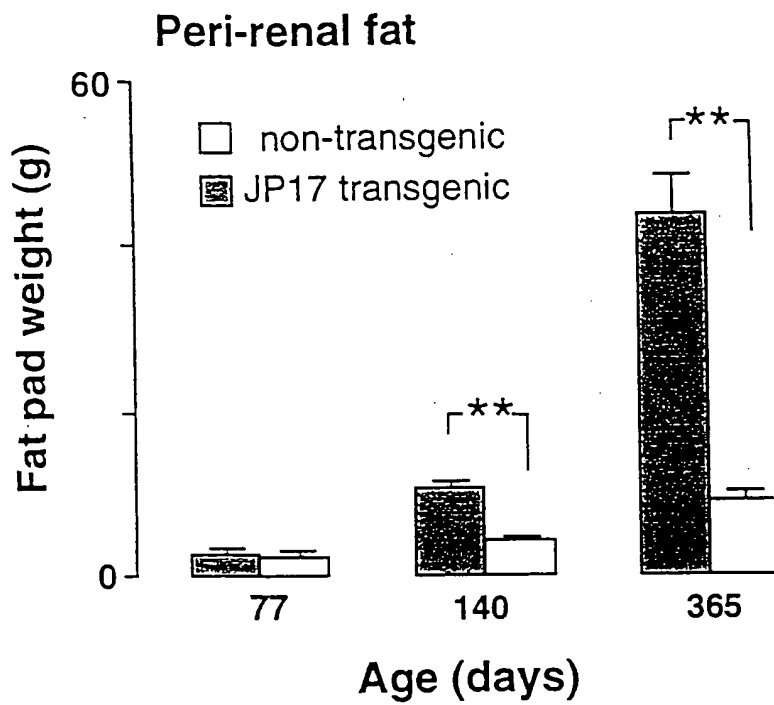


FIG. 11

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	Cholesterol mg/dl	Triglyceride mg/dl	Glucose mg/dl	Insulin ng/ml	Leptin ng/ml	Corticosterone ng/ml
MALE TRANSGENIC	122.3 +/- 6.4	*295.6 +/- 28.7	114.7 +/- 4.2	1.94 +/- 0.89	*24.4 +/- 1.49	168.9 +/- 23.5
MALE NON- TRANSGENIC	129.9 +/- 9.3	178.9 +/- 23.5	121.0 +/- 3.9	2.8 +/- 1.93	9.51 +/- 2.14	113.9 +/- 20.3
FEMALE TRANSGENIC	94.9 +/- 5.9	224.2 +/- 52.3	126.3 +/- 3.3	2.51 +/- 0.64	*14.74 +/- 1.38	256.3 +/- 104.1
FEMALE NON- TRANSGENIC	100.2 +/- 8.0	195.5 +/- 34.5	135.4 +/- 6.7	2.54 +/- 2.32	4.58 +/- 0.47	349.3 +/- 123.7

FIG. 12

SLOB NORMAL DWARF

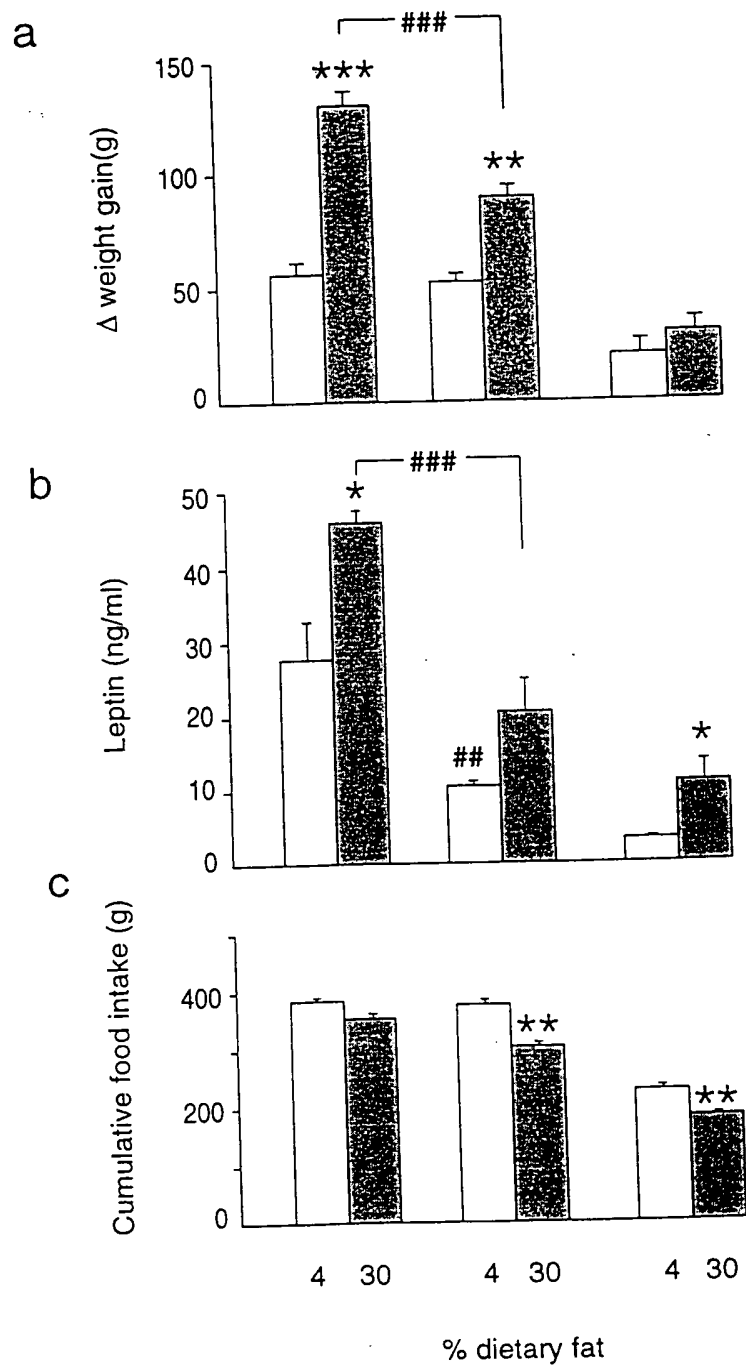


FIG. 13

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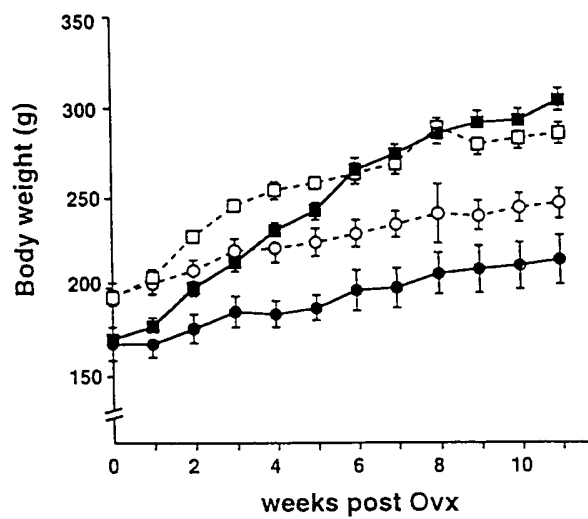


FIG 14

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